

light can pass are made in Case 5. The light emitted from LED 14 is radiated towards Elastic film 15 which fills the role as the reflection board through Window 17. Its reflected light passes through Window 18 and reaches Photo sensor 16a and 16b.

When Position indicator 1 is moved, Elastic film 15 pushes air and becomes sagged due to its reaction.

Since the optical way of the reflected light is changed due to the deflection of Elastic film 15, a balance of the output of Photo sensor 16a and 16b collapses. Therefore, the movement of Position indicator 1 can be known.

Silicone is the material suitable to be used in making an elastic film used in this invention. The deflection which occurs in the silicone film due to the reaction with the air can be measured as a change in the capacity or the resistance value.

Figure 11 shows another structure of Pressure sensor 2. Thin part 20 in Silicon substrate 19 is established by etching process. Piezo resistive elements 21 are set up near Thin part 20. Thin part 20 is covered by Cover 22 on which many Minute holes 23 are made.

When Position indicator 1 is moved in the air, Thin part 20 receives the reaction of the air, and the resistance value of Piezo resistive elements 21 is changed by its mechanical stress.

WHAT IS CLAIMED IS:

1. A position indicator for performing a graphic input for such OA equipment as computers by moving the position indicator in the air,

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comprising: a pressure sensor to detect a reaction of air due to the movement of the position indicator.

2. The position indicator of Claim 1, wherein the pressure sensor comprised in the position indicator comprises an elastic film to push the air.
3. The position indicator of Claim 1, wherein the elastic film of Claim 2 forms concavity to provide the maximum momentum to the air
4. The position indicator of Claim 1, wherein the pressure sensor comprises a cover comprising minute holes in the front to prevent the pressure sensor from wind.
5. The position indicator of Claim 1, wherein the pressure sensor comprises holes on the back to make the air flow smoothly.
6. The position indicator of Claim 1, wherein the cover of Claim 4 comprises a cover comprising another holes on the outside to prevent the pressure sensor from wind.
7. The position indicator of Claim 1, wherein the elastic film of Claim 2 is comprised of a piezoelectric film having a piezoelectric effect.
8. The position indicator of Claim 1, wherein the piezoelectric film of Claim 7 is glued to another film, comprised of a material with good elasticity and rigidity, which fills a role of pushing air.
9. The position indicator of Claim 1, wherein the reaction of the air due to the movement of the position indicator is calculated by measuring a change in an output of a photo sensor which receives a reflected light of a light emitted towards the elastic film of Claim 2.
10. The position indicator of Claim 1, wherein the elastic film of Claim 2 is